



# VLL-43 LED LINEAR LEAD LIGHT

# UP TO 11NM NIGHT AT 0.74T



The VLL-43 Linear Lead Light forms part of the Vega LED marine light family. The optical system utilises an acrylic lens to capture and project the light from the high-powered LEDs. The LEDs are precisely graded and placed to produce a light beam with minimum variation in intensity. The lead light is available in 5 colours, red, green, white, yellow, and blue.

Any number of these lights can be used to achieve the desired range. Each unit has its own control board and can be operated individually allowing each unit to have a different intensity, flash character, or synch delay.

Programming of the VLL-43 could not be easier. Once set the VLL-43 provides automatic Schmidt-Clausen correction for the flash character to increase the peak intensity and maintain the effective range of the light. The peak output intensity cannot exceed the maximum output of the light.

Other programmable features include:

- Separate intensity settings for day and night.
- Nine night/day transition settings.
- Up to 246 standard flash characters.
- One programmable custom character.
- Up to 20 factory set customer characters.
- Wired synchronisation with options of master/slave.
- Synch delay from 0.1 to 9.9 seconds
  - and the second second

I A L A A I S M

ISO 9001 BUREAU VERITAS Certification



- Battery low voltage cut off.
- Optional PIN code for programming.

Programming uses the Vega IR programmer. Additional options include:

- Alarm/Monitor wire (Beacon Healthy)
- Plug and socket to ease interconnect of multiple units.

## **GPS SYNCHRONISATION**

• External GPS synchronisation using the Vega VSU-29 unit.

## MONITORING

- VegaWeb monitoring using the Mini VegaWeb unit.
- Using the alarm/monotor connector option

## THE BEAM OF THE LIGHT HAS A Horizontal divergence of 8.5 Degrees at 50% and 15 degrees at 10% of the peak intensity

USE MULTIPLE UNITS TO OBTAIN DESIRED Range

0.75NM day and 11NM night at 0.74T for single white or green unit

## **SPECIFICATIONS**

**Optical Performance** 

Max Peak / Effective Candela (CD) Blue Red Green

- Horizontal divergence of 8.5° at 50% and 15° at 10% of the peak intensity.
- Up to 15 effective intensity settings matching common range requirements.
- Automatic Schmidt-Clausen intensity • correction up to the maximum peak intensity available.
- Colours meet IALA chromaticity requirement.
- Nine levels to determine day/night transition. IALA recommendation included.
- Hard wire flash sync with delay capability from 0.1s to 9.9s
- Tested in the Vega zero range light tunnel.

### **Electrical**

Battery Voltage **Operating Voltage** 

12VDC 9 to 18VDC

Typical Current at Max Peak / Effective Candela (mA):

	Red	Green	White	Yellow	Blue
Max Peak	900	760	700	860	640
Max Effective	580	490	420	550	410

Night off Current Day Current

4.0mA 0.5mA

- For on currents at lower intensity settings refer to VLL-43 product manual
- For VSU-29 GPS sync unit current, refer to VSU-29 manual
- For VegaWeb monitoring unit currents, refer to VegaWeb product manual.

# PARTS FOR ORDERING

### DESCRIPTION

VLL-43 LED Linear Lead Light **Options** 

- Alarm / Monitor output
- Plug / Socket connection

Note: ccc = Light colour code, Red, Wht, Grn, Yel and Blu

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## **Mechanical & Environment**

-30° to +60° Celsius Temperature Intrusion rating Cooling Sealing Salt Wind

IP 68 Convection only Fully sealed Continuous exposure salt water and spray Withstand winds to 140Kt

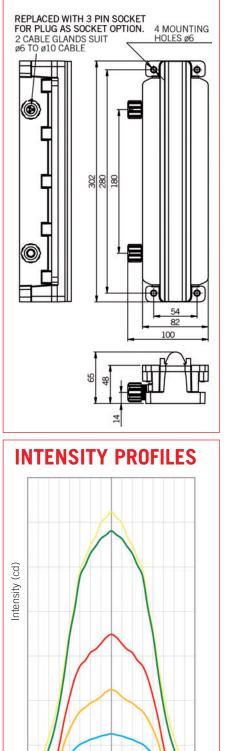
### Material for Lantern:

Lens Housing	Optical grade acrylic Anodised marine grade aluminium heat sink, and high
Sealing	impact ASA plastic O-rings
0	None
Bird Spikes	
Weight	1.3Kg
Dimensions	See drawings
Mounting	4 holes 6mm diameter
Service Life	10 years
Warranty	1 year. Refer Vega
	warranty conditions.





## DIMENSIONS



#### CODE VLL-43-ccc

add "-AL" add "-PL"



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0 -1 -2 -3 -4 -5 -6

Blue

Angle (°)

5 4 3 2

Yellow

Green

White